

Table 1
Summary of Pre-Use Soil Characterization Soil Sample Chemical Analytical Data¹
Avery Landing Site
Avery, Idaho

Sample ID ² :	Soil Screening Level ³	BL-PL-04	BL-PL-05	BL-Dup-1 (BL-PL-05)	Trip Blank - 04252013
Sample Depth (feet):		0.5	0.5	0.5	N/A
Sample Date:		4/25/2013	4/25/2013	4/25/2013	4/25/2013
Field Screening					
Sheen	NE	NS	NS	NS	N/A
Headspace Vapors (ppm)	NE	--	--	--	N/A
Petroleum Hydrocarbons (TPH; mg/kg)					
Diesel-range	NE	136	46	66.1	--
Heavy oil-range	NE	630	184	259	--
Volatile Organic Compounds (VOCs; µg/kg) by EPA Method 8260B					
1,1,1,2-Tetrachloroethane	NE	0.86 U	1.2 U	1 U	1 U
1,1,1-Trichloroethane	2,000	0.86 U	1.2 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.92	1.7 U	2.4 U	2 U	2 U
1,1,2-Trichloroethane	14	0.86 U	1.2 U	1 U	1 U
1,1-Dichloroethane	3,479	0.86 U	1.2 U	1 U	1 U
1,1-Dichloroethene	39	4.3 U	6.0 U	5 U	5 U
1,1-Dichloropropene	NE	0.86 U	1.2 U	1 U	1 U
1,2,3-Trichlorobenzene	190	1.7 U	2.4 U	2 U	2 U
1,2,3-Trichloropropane	NE	86 U	1.2 U	1 U	1 U
1,2,4-Trichlorobenzene	NE	1.7 U	2.4 U	2 U	2 U
1,2,4-Trimethylbenzene	NE	1.7 U	2.4 U	2 U	2 U
1,2-Dibromo-3-Chloropropane	NE	1.7 U	2.4 U	2 U	2 U
1,2-Dichlorobenzene	5,300	0.86 U	1.2 U	1 U	1 U
1,2-Dichloroethane	NE	0.86 U	1.2 U	1 U	1 U
1,2-Dichloropropane	365	0.86 U	1.2 U	1 U	1 U
1,3,5-Trimethylbenzene	150	4.3 U	6.0 U	5 U	5 U
1,3-Dichlorobenzene	NE	0.86 U	1.2 U	1 U	1 U
1,3-Dichloropropane	NE	0.86 U	1.2 U	1 U	1 U
1,4-Dichlorobenzene	76	0.86 U	1.2 U	1 U	1 U
2,2-Dichloropropane	NE	0.86 U	1.2 U	1 U	1 U
2-Chlorotoluene	NE	1.7 U	2.4 U	2 U	2 U
4-Chlorotoluene	NE	1.7 U	2.4 U	2 U	2 U
4-Isopropyltoluene	NE	1.7 U	2.4 U	2 U	2 U
Benzene	18	0.86 U	1.2 U	1 U	1 U
Bromobenzene	NE	1.7 U	2.4 U	2 U	2 U
Bromoform	3	0.86 U	1.2 U	1 U	1 U
Bromomethane	29	0.86 U	1.2 U	1 U	1 U
Carbon tetrachloride	11	0.86 U	1.2 U	1 U	1 U
Chlorobenzene	620	0.86 U	1.2 U	1 U	1 U
Chlorobromomethane	NE	0.86 U	1.2 U	1 U	1 U
Chlorodibromomethane	NE	0.86 U	1.2 U	1 U	1 U
Chloroethane	53	0.86 U	1.2 U	1 U	1 U
Chloroform	6	0.86 U	1.2 U	1 U	1 U
Chloromethane	23	0.86 U	1.2 U	1 U	1 U
cis-1,2-Dichloroethene	193	0.86 U	1.2 U	1 U	1 U
cis-1,3-Dichloropropene	2	0.86 U	1.2 U	1 U	1 U
Dibromomethane	NE	0.86 U	1.2 U	1 U	1 U
Dichlorobromomethane	NE	0.86 U	1.2 U	1 U	1 U
Dichlorodifluoromethane	2,957	0.86 U	1.2 U	1 U	1 U
Ethylbenzene	10,200	0.86 U	1.2 U	1 U	1 U
Ethylene Dibromide	NE	0.86 U	1.2 U	1 U	1 U
Hexachlorobutadiene	NE	0.86 U	1.2 U	1 U	1 U
Isopropylbenzene	3,500	1.7 U	2.4 U	2 U	2 U
Methyl tert-butyl ether	NE	0.86 U	1.2 U	1 U	1 U
Methylene Chloride	17	13 U	18 U	15 U	15 U
m-Xylene & p-Xylene	NE	1.7 U	2.4 U	2 U	2 U
Naphthalene	1,666 ⁴	4.3 U	6 U	5 U	5 U
n-Butylbenzene	1,200	1.7 U	2.4 U	2 U	2 U
N-Propylbenzene	NE	0.86 U	1.2 U	1 U	1 U

Sample ID ² :	Soil Screening Level ³	BL-PL-04	BL-PL-05	BL-Dup-1 (BL-PL-05)	Trip Blank - 04252013
Sample Depth (feet):		0.5	0.5	0.5	N/A
Sample Date:		4/25/2013	4/25/2013	4/25/2013	4/25/2013
o-Xylene	1,666 ⁴	0.86 U	1.2 U	1 U	1 U
sec-Butylbenzene	1,200	1.7 U	2.4 U	2 U	2 U
Styrene	1,800	1.7 U	2.4 U	2 U	2 U
tert-Butylbenzene	850	1.7 U	2.4 U	2 U	2 U
Tetrachloroethene	29	0.86 U	1.2 U	1 U	1 U
Toluene	4,885	1.7 U	2.4 U	2 U	2 U
trans-1,2-Dichloroethene	365	0.86 U	1.2 U	1 U	1 U
trans-1,3-Dichloropropene	2	0.86 U	1.2 U	1 U	1 U
Trichloroethene	3	0.86 U	1.5	2.3	1 U
Trichlorofluoromethane	10,376	0.86 U	1.2 U	1 U	1 U
Vinyl chloride	10	0.86 U	1.2 U	1 U	1 U
Semi-Volatile Organic Compounds (SVOCs; µg/kg) by EPA Method 8270C					
1,2,4-Trichlorobenzene	692	5.7 U	5.2 U	5 U	--
1,2-Dichlorobenzene	5,253	6.3 U	5.7 U	5.5 U	--
1,3-Dichlorobenzene	229	5.7 U	5.2 U	5 U	--
1,4-Dichlorobenzene	76	5.7 U	5.2 U	5 U	--
2,2'-oxybis[1-chloropropane]	NE	29 U	26 U	25 U	--
2,4,5-Trichlorophenol	NE	11 U	10 U	10 U	--
2,4,6-Trichlorophenol	NE	17 U	16 U	15 U	--
2,4-Dichlorophenol	98	11 U	10 U	10 U	--
2,4-Dimethylphenol	NE	11 U	10 U	10 U	--
2,4-Dinitrophenol	NE	110 U	100 U	100 U	--
2,4-Dinitrotoluene	NE	11 U	10 U	10 U	--
2,6-Dinitrotoluene	NE	11 U	10 U	10 U	--
2-Chloronaphthalene	NE	0.0023 U	2.1 U	2 U	--
2-Chlorophenol	365	11 U	10 U	10 U	--
2-Methylphenol	NE	78.000	10 U	10 U	--
2-Nitroaniline	NE	11 U	10 U	10 U	--
2-Nitrophenol	NE	11 U	10 U	10 U	--
3 & 4 Methylphenol	NE	110	21 U	20 U	--
3,3'-Dichlorobenzidine	NE	23 UJ	21 UJ	20 UJ	--
3-Nitroaniline	NE	11 UJ	10 UJ	10 UJ	--
4,6-Dinitro-2-methylphenol	NE	110 U	100 U	100 U	--
4-Bromophenyl phenyl ether	NE	11 U	10 U	10 U	--
4-Chloro-3-methylphenol	NE	11 U	10 U	10 U	--
4-Chloroaniline	126	11 U	10 U	10 U	--
4-Chlorophenyl phenyl ether	NE	11 U	10 U	10 U	--
4-Nitroaniline	3.0	11 U	10 U	10 U	--
4-Nitrophenol	NE	110 U	100 U	100 U	--
Benzoic acid	77,150	290 U	260 U	250 U	--
Benzyl alcohol	NE	11 U	10 U	10 U	--
Bis(2-chloroethoxy)methane	NE	11 U	10 U	10 U	--
Bis(2-chloroethyl)ether	O	11 U	10 U	10 U	--
Bis(2-ethylhexyl) phthalate	11,836	98	77	73	--
Butyl benzyl phthalate	240,477	23 U	21 U	20 U	--
Carbazole	NE	11 U	10 U	10	--
Dibenzofuran	6,099	27	10 U	10 U	--
Diethyl phthalate	27,531	23 U	21 U	20 U	--
Dimethyl phthalate	270,813	11 U	10 U	10 U	--
Di-n-butyl phthalate	30,989	57 U	52 U	50	--
Di-n-octyl phthalate	1,828,814	570 U	520 U	500 U	--
Hexachlorobenzene	43	5.7 U	5.2 U	5 U	--
Hexachlorobutadiene	38	5.7 U	5.2 U	5 U	--
Hexachlorocyclopentadiene	12	11 UJ	10 UJ	10 UJ	--
Hexachloroethane	138	11 U	10 U	10 U	--
Isophorone	NE	11 U	10 U	10 U	--
Nitrobenzene	NE	11 U	10 U	10 U	--
N-Nitrosodi-n-propylamine	NE	11 U	10 U	10 U	--
N-Nitrosodiphenylamine	0.002	5.7 UJ	5.2 UJ	5 UJ	--
Pentachlorophenol	9.1	36	21 U	20 U	--
Phenol	7,358	130	10 U	10 U	--
Carcinogenic Polynuclear Aromatic Hydrocarbons (cPAHs; mg/kg) by EPA Method 8270SIM					

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Sample Depth (feet):		0.5	0.5	0.5	N/A
Sample Date:		4/25/2013	4/25/2013	4/25/2013	4/25/2013
Benzo (a) anthracene	0.42	0.0344	0.0248 J	0.0709 J	--
Benzo (a) pyrene	0.042	0.0237	0.0427	0.0648	--
Benzo (b) fluoranthene	0.42	0.0551	0.0406 J	0.11 J	--
Benzo (k) fluoranthene	4.2	0.0115 U	0.0103 U	0.0239	--
Chrysene	33	0.0474	0.0592	0.0845	--
Dibenzo (a,h) anthracene	0.042	0.00688 U	0.0151 J	0.00818 J	--
Indeno (1,2,3-cd) pyrene	0.42	0.0115 U	0.0213	0.0273	--
Non-Carcinogenic Polynuclear Aromatic Hydrocarbons (PAHs; mg/kg) by EPA Method 8270SIM					
1-Methylnaphthalene	22	0.0436	0.0103 U	0.0102 U	--
2-Methylnaphthalene	3.3	0.0596	0.0103	0.0130	--
Acenaphthene	52	0.0237	0.0103 U	0.0102 U	--
Acenaphthylene	78	0.0122	0.0103 U	0.0211	--
Anthracene	1,040	0.0298	0.0103 U	0.0402	--
Benzo (ghi) perylene	1,178	0.0161	0.0447	0.0327	--
Fluoranthene	364	0.0994	0.0275 J	0.195 J	--
Fluorene	55	0.0191	0.0103 U	0.0177	--
Naphthalene	1.1	0.200	0.0103 U	0.0102 U	--
Phenanthrene	79	0.110	0.0103 U	0.1650	--
Pyrene	359	0.152	0.0578 J	0.178 J	--
Polychlorinated Biphenyls (PCBs; µg/kg) by EPA Method 8082					
PCB-1016	150	57.5 U	51.9 U	51.2 U	--
PCB-1221	150	57.5 U	51.9 U	51.2 U	--
PCB-1232	150	57.5 U	51.9 U	51.2 U	--
PCB-1242	150	57.5 U	51.9 U	51.2 U	--
PCB-1248	150	57.5 U	51.9 U	51.2 U	--
PCB-1254	150	57.5 U	51.9 U	51.2 U	--
PCB-1260	150	57.5 U	51.9 U	51.2 U	--
PCB-1268	150	57.5 U	51.9 U	51.2 U	--
Total PCBs (sum of Aroclors)	150	57.5 U	51.9 U	51.2 U	--

Notes:¹ Soil samples to document baseline conditions for the 2013 removal action.² Sampling areas/locations are shown on Figure 1.³ Soil screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

4 Value for total xylenes

mg/kg = milligram per kilogram

µg/kg = microgram per kilogram

NS = no sheen

U = Analyte not detected above the reporting limit.

J = Estimated result.

-- = not tested

NE = not established

N/A = not applicable

■ Non-detect analyte concentration is greater than soil screening level.

■ Analyte detected at a concentration exceeding the soil screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington.